

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-11 (Cancelled).

12. (New) A vibrator comprising:

a coreless coil having an axis and disposed in a central portion of the vibrator:

a driver including a magnet to be inserted in the coreless coil, a yoke, and a top plate attached to the magnet; and

at least one suspension supporting the driver resiliently,

wherein the at least one suspension comprises a pair of plate springs disposed in axisymmetrical positions to support from both sides of the driver,

wherein the pair of plates springs disposed at the both sides of the driver are arranged on a line extending in a substantially perpendicular direction to the axis,

wherein an outer end of each plate spring is fixed and an inner end of each plate spring which is opened supports the driver, wherein the opened inner ends of the pair of plate springs support the driver from both sides.

13. (New) The vibrator according to claim 12, wherein an alternate current is applied to said coreless coil to generate vibrations by reciprocation of said driver in the axial direction.

14. (New) The vibrator according to claim 12, wherein said driver includes a pair of weights attached to both sides of said yoke.

15. (New) The vibrator according to claim 12, wherein said at least one suspension comprises two suspensions each of which includes a pair of plate springs disposed to support from the both sides of the driver;

wherein the pair of plate springs of the two suspensions are configured to sandwich the driver at above and below portions of the driver in the axial direction.

16. (New) The vibrator according to claim 12, further comprising a case wherein the coreless coil, the driver and the at least one suspension are contained in the case.

17. (New) The vibrator according to claim 16, wherein the case includes a frame having an opening for surrounding the driver, a base for fixing the coreless coil and closing one side of the opening of the frame, and a protector for closing the other side of the opening of the frame.

18. (New) The vibrator according to claim 17, wherein the case has a spacer, the at least one suspension being fixed between the spacer and frame.

19. (New) A vibrator having an elongated shape comprising:

a coreless coil having an axis and being centrally located in the elongated vibrator;

a driver including a magnet to be inserted in the coreless coil, a yoke, and a top plate attached to the magnet;

at least one suspension supporting the driver resiliently,

wherein the at least one suspension comprises a first pair of plate springs disposed in axisymmetrical positions substantially perpendicular to the axis and supporting from opposite sides of said driver and extending along the elongated shape of the vibrator,

an outer end of each spring distance from the vibrator being anchored and an inner end of each plate spring proximal to the vibrator being opened and supporting the driver, and

opposite portions of the driver being supported by the inner ends of said plate springs.

20. (New) The vibrator according to claim 19, wherein an alternate current is applied to said coreless coil

to generate vibrations by reciprocation of said driver in the axial direction.

21. (New) The vibrator according to claim 19, further comprising a second suspension for supporting the driver resiliently and disposed in axisymmetrical portions parallel to the first pair of plate springs.